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K-7014

NPIC/CSD 31/66
13 JANUARY 1966

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COPY 1YAN HEE HYDROELECTRIC POWER PLANT
SAM NGAO, THAILAND
1714N 9858E

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1. SIGNIFICANCE:

THIS BRIEFING BOARD DISCLOSES THE CURRENT STATE OF CONSTRUCTION OF THE LARGEST MULTI-PURPOSE DAM IN THAILAND.

2. REMARKS:

UNTIL RECENTLY THE TOTAL GENERATING CAPACITY IN THAILAND WAS BARELY SUFFICIENT TO KEEP UP WITH CONSUMER AND INDUSTRIAL DEMANDS IN A PREDOMINATELY AGRICULTURAL ECONOMY. THE TOTAL PLANNED OUTPUT OF THE YAN HEE HYDROELECTRIC PROJECT IS IN EXCESS OF BOTH CURRENT DEMANDS AND ESTIMATED DEMANDS THROUGH 1970.

3. COLLATERAL:

COLLATERAL REPORTS THAT THE YAN HEE HYDROELECTRIC POWER PLANT, ALSO KNOWN AS THE BHUMIBOL DAM, IS OPERATED BY THE YAN HEE ELECTRICITY AUTHORITY (YEA), AN AGENCY OF THE GOVERNMENT OF THAILAND. THE DAM IS A THIN ARCH-TYPE STRUCTURE 505 FT. HIGH AND 1532 FT. LONG AT THE CREST. THE TOTAL PLANNED CAPACITY OF THE POWER PLANT IS 560,000 KW UTILIZING EIGHT 70,000 KW GENERATORS.

THE YAN HEE DAM WAS BUILT TO PROVIDE INEXPENSIVE ELECTRIC POWER, TO ASSIST IN FLOOD CONTROL, AND TO IMPROVE NAVIGATION AND IRRIGATION. THE TOTAL COST OF THE PROJECT IS NEAR \$185,000,000 WITH SUBSTANTIAL

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ASSISTANCE PROVIDED BY THE INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT.

THE DAM AND THE FIRST TWO 70,000 KW GENERATING UNITS WERE DEDICATED ON 17 MAY 1964. TWO ADDITIONAL UNITS MAY BE INSTALLED BY 1967 OR 1968; THE TOTAL CAPACITY OF THESE UNITS IS NOT EXPECTED TO BE NEEDED UNTIL 1970. THE REMAINING FOUR UNITS WILL BE ADDED AS CONSUMER DEMAND IN THE PRIVATE AND INDUSTRIAL SECTORS INCREASES.

THE CURRENT ESTIMATE OF POWER DEMANDS FOR THE YEAR 1970 IS 326,000 KW FOR BANGKOK, AND 67,000 KW FOR RURAL AREAS, FOR A TOTAL DEMAND OF 393,000 KW. THE CAPACITY OF THE YAN HEE AT THAT TIME WILL BE 280,000 KW, AND THE ESTIMATED DIFFERENCE OF 113,000 KW WOULD BE MET BY THERMAL POWER PLANTS THAT ARE NOW IN OPERATION AND TWO ADDITIONAL SMALL CAPACITY HYDROELECTRIC PROJECTS THAT MAY BE OPERATIONAL AT THAT TIME.

4. LOCATION:

THE YAN HEE HYDROELECTRIC POWER PLANT IS LOCATED ON THE MAE NAM PING (RIVER) APPROXIMATELY 225 NM NORTH-NORTHWEST OF BANGKOK AND 2.8 NM WEST OF SAM NGAO.

5. MISSION READOUT:

PHOTOGRAPHY OF [REDACTED] REVEALS A REINFORCED CONCRETE ARCH-TYPE DAM, ORIENTED NORTH/SOUTH. TWO GENERATOR UNITS APPEAR TO BE IN OPERATION, AND FACILITIES FOR SIX MORE GENERATOR UNITS ARE AVAILABLE. A TUNNELED SPILLWAY LOCATED ON THE SOUTH SIDE

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OF THE DAM HAS FOUR GATES CONTROLLING OVERFLOW THROUGH TWO SEPARATE ADJACENT TUNNELS. CONSTRUCTION FACILITIES IN THE AREA INCLUDE A BATCH PLANT, AGGREGATE PLANT, AND A LARGE QUARRY. TRANSMISSION TOWERS HAVE BEEN CONSTRUCTED ON BOTH SIDES OF THE RIVER DOWNSTREAM FROM THE DAM, ALTHOUGH THE TRANSMISSION LINES HAVE NOT BEEN COMPLETELY INSTALLED.

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SPILLWAY

BATCH PLANT

GENERATOR HALL

QUARRY SITE

AGGREGATE PLANT

TRANSMISSION TOWER

8X ENLARGEMENT
NPIC K-7014 (1/66)

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